

MAGNUM PETROLEUM LIMITED

Lube Oil Blending Plant (LOBP)
Rupgonj, Narayanganj



PRODUCT DATA SHEET (PDS)



ENERGY AW HYDRAULIC OIL ISO 32, 46, 68, 100, 150, 220 Series

Hydraulic Oil Series

Introduction

ENERGY AW HYDRAULIC OIL Series are zinc based premium anti-wear hydraulic oil and designed to meet wide range of industrial hydraulic applications. It provides durability and retention of performance that extends fluid and equipment life.

Features & Benefits

- Excellent water separation and air release properties
- Superior filterability and antifoam properties
- Good operational reliability
- Smooth and precise hydraulic operation

Technical Performance Data

TEST PARAMETERS	TEST METHOD	UOM	TYPICAL RESULTS					
			ISO 32	ISO 46	ISO 68	ISO 100	ISO 150	ISO 220
Appearance	ASTM D 4176	-	B&C	B&C	B&C	B&C		
Color	ASTM D 1500	-	L 0.5	L 0.5	L 0.5	L 0.5		
Density at 15 °C	ASTM D 4052	g/mL	0.8382	0.8492	0.8674	0.8692		
Density at 30 °C	ASTM D 4052	g/mL	0.8219	0.8400	0.8583	0.8600		
Kinematic Viscosity at 40°C	ASTM D 445	cSt	32.90	46.75	70.86	101.6		
Kinematic Viscosity at 100°C	ASTM D 445	cSt	6.115	7.507	9.198	11.75		
Viscosity Index	ASTM D 2270	-	136	125	105	104		
Brookfield Viscosity at -10°C	ASTM D 2983	mPa.s		1150	2230	4040		
Brookfield Viscosity at -20°C	ASTM D 2983	mPa.s	2300	4430	9510	27,300		
Brookfield Viscosity at -30°C	ASTM D 2983	mPa.s	15,580					
Flash Point (FP)	ASTM D 92	°C	238	248	256	268		
Pour Point (PP)	ASTM D 5950	°C	-33	-30	-30	-30		
Foaming Seq. I	ASTM D 892	mL	10/0	5/0	5/0	0/0		
Foaming Seq. II	ASTM D 892	mL	15/0	10/0	10/0	10/0		
Foaming Seq. III	ASTM D 892	mL	10/0	5/0	5/0	0/0		
FTIR Scanning	ASTM E 2412	As Ref.	Matches	Matches	Matches	Matches		

